

Ahmed Jellal

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

108
papers

666
citations

13
h-index

22
g-index

114
ext. papers

791
ext. citations

1.9
avg, IF

4.4
L-index

#	Paper	IF	Citations
108	Band structures of hybrid graphene quantum dots with magnetic flux. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022 , 426, 127898	2.3	
107	Two band tunneling for a pnp junction in tetralayer graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022 , 140, 115158	3	
106	Strain effect on Goos-Hänchen shifts and group delay time in gapped graphene barrier. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022 , 439, 128136	2.3	0
105	Tunneling effect in phosphorene through double barriers. <i>Solid State Communications</i> , 2022 , 351, 114777	1.6	
104	Tuning gap in corrugated graphene with spin dependence. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022 , 115227	3	0
103	Quantum tunneling in graphene Corbino disk in a solenoid magnetic potential with wedge disclination. <i>Physica B: Condensed Matter</i> , 2022 , 413904	2.8	
102	Tunneling effect in gapped graphene disk in magnetic flux and electrostatic potential. <i>Physica Scripta</i> , 2021 , 96, 125863	2.6	0
101	Instability of Meissner Differential Equation and Its Relation with Photon Excitations and Entanglement in a System of Coupled Quantum Oscillators. <i>Quantum Reports</i> , 2021 , 3, 684-702	2.1	1
100	Low energy consequences of loop quantum gravity. <i>International Journal of Geometric Methods in Modern Physics</i> , 2021 , 18, 2150035	1.5	
99	Electronic properties of graphene quantum ring with wedge disclination. <i>European Physical Journal B</i> , 2021 , 94, 1	1.2	1
98	Dynamics and redistribution of entanglement and coherence in three time-dependent coupled harmonic oscillators. <i>International Journal of Geometric Methods in Modern Physics</i> , 2021 , 18, 2150120	1.5	3
97	Zitterbewegung effect in graphene with specially modulated potential. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 125, 114193	3	1
96	Fano resonances in gapped graphene subject to an oscillating potential barrier and magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 127, 114502	3	0
95	Measuring space deformation via graphene under constraints. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021 , 385, 126964	2.3	1
94	Energy levels of magnetic quantum dots in gapped graphene. <i>European Physical Journal B</i> , 2021 , 94, 1	1.2	0
93	Density of states analysis of electrostatic confinement in gapped graphene. <i>Solid State Communications</i> , 2021 , 333, 114335	1.6	
92	Tunneling in an anisotropic cubic Dirac semi-metal. <i>Annals of Physics</i> , 2021 , 432, 168563	2.5	1

91	Gap-tunable of tunneling time in graphene magnetic barrier. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 134, 114924	3	1
90	Transport properties in gapped bilayer graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 134, 114835	3	2
89	Effect of strain on band engineering in gapped graphene. <i>European Physical Journal B</i> , 2021 , 94, 1	1.2	0
88	Time-dependent Goos-Hñchen shifts in gapped graphene. <i>Europhysics Letters</i> , 2020 , 129, 27001	1.6	1
87	Goos-Hñchen shifts in graphene with spatially modulated potential. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 119, 114010	3	4
86	Energy levels of graphene magnetic circular quantum dot. <i>Materials Research Express</i> , 2020 , 7, 015090	1.7	4
85	Scattering in gapped graphene quantum dot with magnetic flux. <i>Physica Scripta</i> , 2020 , 95, 105805	2.6	0
84	Tunneling through Double Electrostatic Barriers in Strained Graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900414	1.3	1
83	Entanglement in three coupled harmonic oscillators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126134	2.3	6
82	Magnetic field effect on strained graphene junctions. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 115, 113672	3	3
81	Energy Levels of Quantum Ring in ABA-Stacked Trilayer Graphene. <i>Journal of Low Temperature Physics</i> , 2019 , 197, 10-22	1.3	0
80	Tunneling Through a Multi-Unit Graphene Superlattice. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1900172	1.3	2
79	Goos-Hñchen shifts in graphene-based linear barrier. <i>Materials Research Express</i> , 2019 , 6, 085013	1.7	2
78	Transmission in graphene through time-oscillating linear barrier. <i>European Physical Journal B</i> , 2019 , 92, 1	1.2	2
77	Effect of magnetic field on Goos-Hñchen shifts in gaped graphene triangular barrier. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 111, 218-225	3	5
76	Thermodynamic properties of graphene in a magnetic field and Rashba coupling. <i>Physica Scripta</i> , 2019 , 94, 105707	2.6	2
75	Thermodynamics Properties of Confined Particles on Noncommutative Plane. <i>Communications in Theoretical Physics</i> , 2019 , 71, 1047	2.4	
74	Multibands tunneling in AAA-stacked trilayer graphene. <i>Superlattices and Microstructures</i> , 2018 , 116, 44-53	2.8	2

73	Time-dependent strain in graphene. <i>European Physical Journal B</i> , 2018 , 91, 1	1.2	3
72	Electron scattering in gapped graphene quantum dots. <i>Europhysics Letters</i> , 2018 , 123, 28002	1.6	5
71	Purity temperature dependency for coupled harmonic oscillator. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018 , 2018, 093101	1.9	0
70	Band structures of symmetrical graphene superlattice with cells of three regions. <i>European Physical Journal B</i> , 2018 , 91, 1	1.2	6
69	Transmission in graphene through time periodic double barrier potential. <i>Materials Research Express</i> , 2017 , 4, 035002	1.7	
68	Band tunneling through double barrier in biased graphene bilayer. <i>Materials Research Express</i> , 2017 , 4, 025009	1.7	11
67	Energy levels of an ideal quantum ring in AA-stacked bilayer graphene. <i>Materials Research Express</i> , 2017 , 4, 055603	1.7	2
66	Exact Green function for neutral PauliDirac particle with anomalous magnetic momentum in linear magnetic field. <i>Annals of Physics</i> , 2017 , 384, 116-127	2.5	3
65	Controllable Goos-Hñichen shift in graphene triangular double barrier. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 87, 266-272	3	2
64	Transmission and Goos-Hñichen like shifts through a graphene double barrier in an inhomogeneous magnetic field. <i>European Physical Journal B</i> , 2016 , 89, 1	1.2	
63	Periodic barrier structure in AA-stacked bilayer graphene. <i>Materials Research Express</i> , 2016 , 3, 065005	1.7	4
62	Goos-Hñichen shifts in AA-stacked bilayer graphene superlattices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 81, 259-267	3	6
61	Gate-tunable graphene quantum dot and Dirac oscillator. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 773-778	2.3	12
60	Integer quantum Hall effect in graphene. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 1514-1516	2.3	3
59	AA-stacked bilayer graphene quantum dots in magnetic field. <i>Materials Research Express</i> , 2016 , 3, 055005	1.7	5
58	Confined Dirac particles in a constant and tilted magnetic field. <i>International Journal of Geometric Methods in Modern Physics</i> , 2015 , 12, 1550062	1.5	0
57	Electrostatic and magnetic fields in bilayer graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 72, 149-159	3	9
56	Path integral for confined Dirac fermions in a constant magnetic field. <i>International Journal of Modern Physics A</i> , 2015 , 30, 1550174	1.2	2

55	Double Barriers and Magnetic Field in Bilayer Graphene. <i>Journal of Low Temperature Physics</i> , 2015 , 181, 197-210	1.3	3
54	Compatibility of symmetric quantization with general covariance in the Dirac equation and spin connections. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015 , 379, 2946-2950	2.3	2
53	Zero, positive and negative quantum Goos-Hänchen shifts in graphene barrier with vertical magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 68, 53-58	3	9
52	Goos-Hänchen like shifts in graphene double barriers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014 , 58, 30-37	3	15
51	Factorization of the Dirac equation and a graphene quantum dot. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014 , 2014, P10027	1.9	1
50	Tunneling of massive dirac fermions in graphene through time-periodic potential. <i>European Physical Journal B</i> , 2014 , 87, 1	1.2	12
49	Factorization of Dirac equation in two space dimensions. <i>International Journal of Geometric Methods in Modern Physics</i> , 2014 , 11, 1450036	1.5	4
48	Transport Properties for Triangular Barriers in Graphene Nanoribbon. <i>Journal of Low Temperature Physics</i> , 2013 , 173, 264-281	1.3	4
47	Graphene nanoribbon in sharply localized magnetic fields. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	1
46	Effect of spin-orbit couplings in graphene with and without potential modulation. <i>Physical Review B</i> , 2013 , 88,	3.3	30
45	Position space renormalization group study of the spin-1 random semi-infinite Blume-Capel model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013 , 392, 689-701	3.3	7
44	Tunneling of Graphene Massive Dirac Fermions Through a Double Barrier. <i>Journal of Low Temperature Physics</i> , 2012 , 169, 51-69	1.3	9
43	Massless Dirac fermions in an electromagnetic field. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012 , 2012, P01021	1.9	8
42	Transport Properties Through Double Barrier Structure in Graphene. <i>Journal of Low Temperature Physics</i> , 2012 , 168, 40-56	1.3	5
41	A confined system with Rashba coupling in a constant magnetic field. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012 , 45, 505306	2	
40	Dirac fermions in an inhomogeneous magnetic field. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011 , 44, 015302	2	6
39	Bipartite and tripartite entanglement of truncated harmonic oscillator coherent states via beam splitters. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011 , 44, 325301	2	3
38	Transmission through biased graphene strip. <i>Solid State Communications</i> , 2011 , 151, 1309-1313	1.6	5

37	Solution of one-dimensional Dirac equation via Poincaré map. <i>Europhysics Letters</i> , 2011 , 95, 17009	1.6	4
36	Entanglement in coupled harmonic oscillators studied using a unitary transformation. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011 , 2011, P09015	1.9	5
35	A MATRIX MODEL FOR $\nu_{\{k_1 k_2\}} = \{k_1 + k_2 \text{ over } k_1 k_2\}$ FRACTIONAL QUANTUM HALL STATES. <i>International Journal of Geometric Methods in Modern Physics</i> , 2011 , 08, 557-586	1.5	1
34	ELECTROMAGNETIC EXCITATIONS OF HALL SYSTEMS ON FOUR-DIMENSIONAL SPACE. <i>International Journal of Geometric Methods in Modern Physics</i> , 2011 , 08, 1465-1486	1.5	
33	Diamagnetism of confined Dirac fermions in disordered graphene. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011 , 44, 275001	2	1
32	FRACTIONAL QUANTUM HALL STATES IN GRAPHENE. <i>International Journal of Geometric Methods in Modern Physics</i> , 2010 , 07, 143-164	1.5	3
31	TUNNELING FOR DIRAC FERMIONS IN CONSTANT MAGNETIC FIELD. <i>International Journal of Geometric Methods in Modern Physics</i> , 2010 , 07, 909-931	1.5	8
30	ELECTROMAGNETIC EXCITATIONS OF AN QUANTUM HALL DROPLETS. <i>International Journal of Modern Physics A</i> , 2010 , 25, 3675-3701	1.2	1
29	The magnetism of two coupled harmonic oscillators. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010 , 2010, P01012	1.9	1
28	Symplectic fluctuations for electromagnetic excitations of Hall droplets. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010 , 2010, P07017	1.9	1
27	A noncommutative space approach to confined Dirac fermions in graphene. <i>Journal of Mathematical Physics</i> , 2010 , 51, 063522	1.2	20
26	Periodic structures with Rashba interaction in a magnetic field. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009 , 42, 035205	2	
25	NONCOMMUTATIVE DESCRIPTION OF SPIN HALL EFFECT. <i>International Journal of Geometric Methods in Modern Physics</i> , 2009 , 06, 343-360	1.5	6
24	Confined Dirac fermions in a constant magnetic field. <i>Physical Review A</i> , 2009 , 80,	2.6	17
23	Anomalous quantum Hall effect on sphere. <i>Nuclear Physics B</i> , 2008 , 804, 361-382	2.8	13
22	QUANTUM HALL EFFECT ON THE FLAG MANIFOLD F_2 . <i>International Journal of Modern Physics A</i> , 2008 , 23, 3129-3154	1.2	10
21	THERMODYNAMICAL PROPERTIES OF HALL SYSTEMS. <i>International Journal of Geometric Methods in Modern Physics</i> , 2008 , 05, 297-317	1.5	2
20	QUANTUM HALL DROPLETS ON DISC AND EFFECTIVE WESSZUMINO-WITTEN ACTION FOR EDGE STATES. <i>International Journal of Geometric Methods in Modern Physics</i> , 2007 , 04, 1187-1204	1.5	8

19	Effective Wess-Zumino-Witten action for edge states of quantum Hall systems on Bergman ball. <i>Nuclear Physics B</i> , 2007 , 764, 109-127	2.8	12
18	Quantum Hall effect on higher-dimensional spaces. <i>Nuclear Physics B</i> , 2005 , 725, 554-576	2.8	29
17	TWO COUPLED HARMONIC OSCILLATORS ON NONCOMMUTATIVE PLANE. <i>International Journal of Modern Physics A</i> , 2005 , 20, 1515-1529	1.2	21
16	Supersymmetric Embedding of the Quantum Hall Matrix Model. <i>Journal of High Energy Physics</i> , 2004 , 2004, 075-075	5.4	6
15	A matrix model for bilayered quantum Hall systems. <i>Journal of Physics A</i> , 2004 , 37, 3147-3157		4
14	Noncommutativity Parameter and Composite Fermions. <i>Modern Physics Letters A</i> , 2003 , 18, 1473-1484	1.3	4
13	SECOND VIRIAL COEFFICIENT FOR NONCOMMUTATIVE SPACE. <i>Modern Physics Letters A</i> , 2003 , 18, 927-935		3
12	D-DIMENSIONAL IDEAL QUANTUM GASES IN A Ar_n+Br_n POTENTIAL. <i>Modern Physics Letters B</i> , 2003 , 17, 1321-1330	1.6	3
11	THERMODYNAMIC PROPERTIES OF A QUANTUM GROUP BOSON GAS $GL_p, q(2)$. <i>Modern Physics Letters A</i> , 2002 , 17, 701-710	1.3	16
10	COHERENT STATES FOR GENERALIZED LAGUERRE FUNCTIONS. <i>Modern Physics Letters A</i> , 2002 , 17, 671-682	1.3	19
9	Graded q -pseudo-differential operators and supersymmetric algebras. <i>Journal of Physics A</i> , 2002 , 35, 3697-3702		
8	Hall effect in noncommutative coordinates. <i>Journal of Mathematical Physics</i> , 2002 , 43, 4592	1.2	103
7	Landau diamagnetism in noncommutative space and the nonextensive thermodynamics of Tsallis. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001 , 287, 349-355	2.3	42
6	Orbital magnetism of a two-dimensional noncommutative confined system. <i>Journal of Physics A</i> , 2001 , 34, 10159-10177		39
5	REALIZATION OF SUPERSYMMETRIC SINE ALGEBRA AND QUANTUM SUPERALGEBRA $U_q(\mathfrak{sl}(2/1))$. <i>Modern Physics Letters A</i> , 1999 , 14, 2253-2258	1.3	1
4	$U_q[\mathfrak{sl}(2)]$ Quantum Algebra in Quantum Hall Effect. <i>International Journal of Theoretical Physics</i> , 1999 , 38, 1893-1899	1.1	1
3	Quantum Hall Effect. <i>International Journal of Theoretical Physics</i> , 1998 , 37, 2187-2191	1.1	2
2	Fractional Quantum Hall Effect and $(2 + 1)$ -Dimensional Quantum Electrodynamics. <i>International Journal of Theoretical Physics</i> , 1998 , 37, 2751-2755	1.1	2

1 Klein Tunneling through Double Barrier in ABC-Trilayer Graphene. *Annalen Der Physik*, 2100513

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